ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25

ENGLISH LANGUAGE

PRESCRIBED TEXTBOOK: ABSOLUTE ENGLISH (IX-X)

	HALF YEARLY		ANNUAL
CHAPTER	TOPICS	CHAPTER	TOPICS
NO./TITLE		NO./TITLE	
1	Writing an Essay	22	Expository Essays
2	Organising and Planning Your Composition	23	Critical Essays
3	Paragraph Writing	24	The Short Story
4	Characterisation Introduction (Beginning) and Conclusion (Ending)	25	Picture Composition
5	of Essays	26	Uses of Tense
6	Punctuation and Capitals	27	Sequence of Tenses
7	Article	28	Adjective
8	Agreement of Verb with the Subject	29	Adverb
9	Active and Passive Voice	30	Letter to the Editor
10	Direct and Indirect Speech	31	Letter of Complaint
11	Types of Essays	32	A Letter of Apology
12	Narrative Essays	33	Letter of Persuation
13	Descriptive Essays	34	Letter of Invitation
14	Argumentative Essays	3:	5 Letter of Condolence
15	Types of Sentences	36	Conditional Sentences
16	Transformation of Sentences-1	37	Prepositions
17	Transformation of Sentences-2	38	Conjunctions
18	Letter Writing- Personal	39	Summary Writing
19	Letters Formal or Official	40	Words Likely to be Confused
20	Comprehension Skills	41	Idioms
21	Notice and E-mail	42	Proverbs

Essay Test; Oral and Aural Assessment; ELSA

Essay Test; Oral and Aural Assessment; ELSA

FLN:

We often get warnings that come over SMSes and in newsprint about not sharing information regarding details of our account. Narrate an experience that a relative of yours has gone through wherby he / she had shared the account details and suffered as a result.

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024- 25 ENGLISH LITERATURE

PRESCRIBED TEXTBOOKS: JULIUS CAESAR AND TREASURE CHEST

	HALF YEARLY		ANNUAL
CHAPTER	TOPICS	CHAPTER	TOPICS
Treasure Chest	1.Bonku Babu's Friend	Treasure Chest	1.A Doctor's Journal Entry for August 6, 1945
	2. The Night Mail		2. Homecoming
	3. Skimbleshunks: The Railway Cat		3.A Work of Artifice
	4. Oliver Asks for More5. I Remember, I Remember		4. The Boy who Broke the Bank
Julius Caesar	6. The Model Millionaire Act I Scenes I, II and III	Julius Caesar	Act II Scenes I, II, III and IV
	Project: An alien from a different planet helped Bonku Babu gain confidence regarding dealing with people. Explain this statement with close reference to the story 'Bonku Babu's Friend'.		Project: With close reference to the play 'Julius Caesar' discuss how the opinion of the common people regarding Caesar was in complete contrast with that of the conspirators.
	Submission date: on or before 16.08.2024		Submission date : on or before 30.01.2025

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL **SYLLABUS FOR CLASS - IX ACADEMIC SESSION 2024 - 25 SUBJECT NAME - HINDI**

PRESCRIBED TEXT BOOK - साहित्य सागर , आदर्श हिंदी व्याकरण

	THESCHIDED TEHT DOOM	***************************************	
HALF YEARLY			ANNUAL
CHAPTER	TOPICS	CHAPTER	TOPICS
NO./TITLE		NO./TITLE	
	0 0 5		
1	बात अठन्नी की - सुदर्शन	4	नेताजी का चश्मा - स्वयं प्रकाश
2	काकी - सियारामशरण गुप्त	5	अपना अपना भाग्य - जैनेन्द्र कुमार
3	महायज्ञ का पुरस्कार - यशपाल	6	बड़े घर की बेटी - प्रेमचंद
1	साखी- कबीरदास	2	गिरंधर की कुंडलियां - गिरिध्र कविराय
3	स्वर्ग बना सकते हैं - रामधारी सिंह दिनकर	5	मेघ आए- सर्वेश्वर दयाल सक्सेना
4	यह जन्मभूमि मेरी - सोहनलाल द्विवेदी	6	सुरदास के पद - सुरदास
	· · · · · · · · · · · · · · · · · · ·		c. C.
व्याकरण		व्याकरण	
	पर्यायवाची शब्द		पर्यायवाची शब्द
	विलोम शब्द		विलोम शब्द
	मुहावरे		मुहावरे
	संज्ञा से विशेषण		संज्ञा से विशेषण
	भाववाचक संज्ञा		भाववाचक संज्ञा
	पत्र लेखन		पत्र लेखन
	अपठित गद्यांश		अपठित गद्यांश
	निबंध लेखन		निबंध लेखन

अध्ययन

PROJECT TOPICS: पत्रों के माध्यम से,भारत में कृषि योजना और चित्र चित्रण करते हुए लेखक का परिचय दीजिए 1

वस्तु विनिमय किसे कहते हैं ? प्राचीन समय में वस्तु विनिमय के माध्यम से लोग किस तरह वस्तुओं का क्रय विक्रय करते थे ?मुद्रण के बिना भी होने वाले इस व्यापार का वर्णन करते हुए अपने मित्र को पत्र लिखें।

FLN:

Project submission date 1st project :on or before 31.08.24

> Final :on or before 30.11.24

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS - IX ACADEMIC SESSION 2024- 25 SUBJECT NAME - BENGALI PRESCRIBED TEXT BOOK - SONKOLITA

HALF YEA	ARLY		ANNUAL
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS
1/Prose	গিন্নি	4/Prose	ক্যানভাসার
2/Prose	नानू	5/Prose	নাম
3/Prose	বামা	6/Prose	অসহযোগী
1/Poem	বঙ্গভূমির প্রতি	4/Poem	আবার আসিব ফিরে
2/Poem	সভ্যতার প্রতি	5/Poem	সিঁড়ি
3/Poem	কুলি মজুর	6/Poem	রবীন্দ্রনাথের প্রতি
Grammar/Composition		Grammar/Composition	
	রচনা লিখন		রচনা লিখন
	পত্ৰ লিখন		পত্ৰ লিখন
	বোধপরীক্ষণ		বোধপরীক্ষণ
	বাগধারা		বাগধারা
	এক কথায় প্রকাশ		এক কথায় প্রকাশ
	সমার্থক শব্দ		সমার্থক শব্দ
	শুদ্ধ অশুদ্ধ		শুদ্ধ অশুদ্ধ
	বাচ্য পরিবর্ত্ন		বাচ্য পরিবর্তন
	উক্তি পরিবর্তন		উক্তি পরিবর্তন
	বাক্য পরিবর্তন		বাক্য পরিবর্তন
	বিরাম চিহ্নের প্রয়োগ		বিরাম চিহ্নের প্রয়োগ
	ধ্বন্যাত্মক শব্দ		ধ্বন্যাত্মক শব্দ
PROJECT	TOPICS: শৈশবের স্মৃতি	PROJECT TOPICS :	লালু /সভ্যতার প্রতি
Project submission date 1s		25.08.2024	
	Final :on or before	30.11.2024	

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024-25

History and Civics-H.C.G.-1

PRESCRIBED TEXT BOOK- I.C.S.E. History and Civics by Goyal Brothers Prakashan

HALF YEA	ARLY	ANNUAL		
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
Civics		Civics		
1. Our Constitution		6.Rural Local government	Rural,-Panchayati Raj,Gram	
	Meaning, Formation of Constitution		Panchayat,Panchayat Samiti,Zila	
.2. Basic features	Date of Adoption, Enforcement, Single	Urban Local Government	parishad, Meaning, Functions. Urban-Municipal Committees, Municipal	
.2. Dasic leatures	Citizenship, Universal Adult franchise,	Oldan Local Government	Corporations-Meaning And functions. Self	
	,		Help goup (FLN)	
3. Fundamental rights and	Meaning, Classification, Fundamental	History		
and Duties		9. The Mughal Empire	Sources, Political History And Administration,	
	Meaningand Features, Economic			
	Policy, Gandhian principles, Principles		Babur, Akbar, Aurangzeb. Architectural	
	for the protection of Environment and monument, principles related to peace		andliterary Developments.	
4.Directive Principles	and Security.Idea of WelfareState.			
-		10 C	Common Dilato Commo Commoto Callito Aliconous Charif	
of State Policy.		10Composite Culture.	Sources, Bijak, Guru Granth Sahib, Ajmer Sharif	
5. Elections	Meaning,Need,Types ofElection,Formation		Significance of Sufi ,Bhakti Movement,	
3. Licetions	Functions of Election Commission.		Mirabai, Jnaneswar, Hazrat Nizamuddin.	
History			Nanak,Kabir TeachingsandEffects.	
	Sources, The Great			
1.THE Harappan	Bath,Seals,Dancing girl,	11. Modern Age in	Definition, Causes, Impacton art, Literature,	
Civilization.	Bearded Man, Dockyard, Script, Extent,	Europe.	Science.Leonardo Da Vinci,Copernicus,	
2. The Vedic Period	Urban plan,Trade, Art,Craft,decline. Sources,Vedas,Epics,Earlyand Later	The Renaissance 12.The Reformation	William Shakespeare. causes ,contribution of Martin Luther,	
2. The vegic i chou	Sources, vedas, Epies, Earry and Later	12.The Reformation	causes , contitution of martin Latite,	

3Jainism and Buddhism	Vedic Society, Economy. Sources, Angas, Tripitakas, Jatakas, Causes for the rise of both religion Doctrines and Impact.	13.The Industrial Revolution	Counter Reformation.Meaning. Definition,Causes,Results,Comparative study of Socialism and Capitalism.
4. The Mauryan	Sources, Arthashastra, Indica, Ashokan		
Empire	Edicts, Sanchi Stupa, Political History,		
	Administration.		
5.The Sangam Age.	Sources, Tirukkural, Megaliths.		
	Society, Economy.		
	Sources, Political		
6.The Age Of the Guptas	History, administration,		
FLN: Guild System	Education, Science, Literature,		
	Culture.		
	Sources, Inscriptions, Brihadeswara		
7. The Cholas	temple,		
	Political History ,Administration. Sources,Inscription,Qutub		
8.The Delhi Sultanate	Minar, political history Qutubuddin		
	History,administration of Qutubuddin		
	Aibak, Alauddin Khilji, Muhammad		
	Bin Tughlaq.		
PROJECT TOPICS : The Vedic Age Subtopics mentioned in the chapter.		PROJECT TOPICS :The Induchapter	strial Revolution Subtopics mentioned in the

SYLLABUS FOR UNIT TEST

Date of Submission 16.8.24

Will be notified by the subject teacher at the appropriate time

15.01.25

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 -25 SUBJECT - GEOGRAPHY

PRESCRIBED TEXT BOOK: A TEXTBOOK OF ICSE GEOGRAPHY PART I BY VEENABHARGAVA

HALF YEARLY			ANNUAL		
	CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
	1.Earth As A Planet	Shape of The Earth Earth As The Home Of Mankind and The Conditions That Exist.	10. Hydrosphere	Meaning of Hydrosphere , Tides and OceanCurrents . Their circulation pattern and effects.	
	2. Latitudes and Longitudes	Concept of Latitudes and Longitudes. To find location and Calculation of Time	11. Atmosphere	Composition and Structure	
	3.Rotation and Revolution	Rotation- Direction, Speed and its Effects Revolution - Effects	12. Insolation	Meaning and Factors Affecting Temperature	
	4. Structure Of The Earth	Core ,Mantle , Crust- Meaning, Extent and Composition	13. Atmospheric Pressure and Winds	Meaning and Factors Affecting Atmospheric Pressure, Major PrssureBelts of The World. Permanent Winds, Periodic Winds, Local Winds, Variable Winds, Jet Stream.	
	5.Landforms Of The Earth	Mountains, Plateaus, Plains. Definitions, Types and Formation.	14. Humidity	Meaning and Difference Between Absolute And Relative Humidity. Condensation and Precipitation- forms Types of Rainfall	
	6.Rocks	Difference between Minerals and Rocks - Igneous, Sedimentary , Metamorphic Rocks	15. Pollution	Types- Air, Water, Soil, Radiation and Noise Sources, Effects and Preventive Measures.	

7.Volcanoes	Meaning ,Types, Effects and Distribution	16. Natural Regions Of The World	Equatorial Region, Tropical Grasslands, Tropical Deserts, Tropical Monsoon, Temperate Grassland Mediterranean, Taiga and Tundra.
8.Earthquakes	Meaning, Causes, Measurement Effects and Distribution.	World Map	Oceans, Seas, Gulfs, Straits and Rivers. Mountains and Plateaus.

9. Weathering and Denudation Meaning, Types and Effects.

Meaning and agents of Denudation:

Work of River and Wind

World Map Oceans, Seas, Gulfs, Straits and

Rivers

Mountains and Plateaus.

Air Pollution OR Water Pollution OR

PROJECT TOPIC: Meteorological Instruments and their

uses

Assignment 1 Conventional Symbols

Assignment 2 Scale

Project submission date: (on

or before) 16. 08.24

Mountains and Plateaus. Major Natural Regions.

Air Pollution OR Water Pollution OR

PROJECT TOPIC: Meteorological Instruments and their uses

Scale

Assignment 1 Conventional Symbols

Assignment 3 Direction

Project submission date

Assignment 2

: (on or before) 25.01.25

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS VII ACADEMIC SESSION 2024 - 25 SUBJECT : PHYSICS

PRESCRIBED TEXT BOOK: CONCISE PHYSICS

HALF Y	YEARLY		ANNUAL
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS
1. Measurement and Experimentation	Need of unit for measurement and its kind, derived units, Least count of instruments screw gauge and vernier calipers, Numericals, Pendulum experiments, Beam balance	7. Reflection of Light	Reflection of light, Images formed in pair of mirror, Uses of plane mirror, Spherical Mirror, Ray diagram of convex and concave mirror, Uses of Mirrors
2. Motion in one Dimension	Rest, motion, speed, velocity, acceleration, Graphical representation of linear Motion, numericals	8. Propagation of Sound wave	Nature of sound waves, Requirement of a medium for sound wave to travel, Propagation and speed in different media, Comparison with speed of light
3. Laws of Motion	Newton's Laws of Motion and its application, Gravity and Free fall	9. Current Electricity	Types of Cell, Symbols for circuit diagram, Insulators and Conductors, Flow of electrons between conductors, Resistance, Efficient use of energy
4. Pressure in Fluids and Atmospheric Pressure	Thrust and Pressure and their units, Pascal's Law and transmission of pressure in liquids, Principle of Floatation, Application, Relative density and measurement, numericals	10. Magnetism	Induced magnetism, Magnetic field of earth, Neutral points, Introduction for electromagnet and uses

5. Upthrust in Fluids, Archimedes' Principle and Upthrust and Archimedes' Principle, Properties of upthrust, Verification

Floatation

of Archimedes Principle

6. Heat and Energy

Concept of heat and temperature, Anomalous Expansion of Water, Thermal expansion, Energy flow and its importance, Energy Resources. Renewable and non renewable, Green House Effect and Global warmingsources, energy degradation

PROJECT TOPIC : As per ICSE Syllabus PROJECT TOPIC : As per ICSE Syllabus

Project submission date:

Project submission date: (on or

(on or before) 31.07.2024

before) 11.03.2024

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25 SUBJECT: CHEMISTRY

PRESCRIBED TEXT BOOK: A New Approach To ICSE Chemistry

HALF YI	EARLY	ANNUAL		
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
1. Language of Chemistry	Symbols, valencies, Chemical formul, chemical equation, atomic weight, molecular weight, percentage composition of compounds.	5. The Periodic table	Dobereiner's Law of Triads, Newland's Law of Octaves, Mendeleev's periodic table, Modern Periodic table, Groups and periods, Study of alkali metals, alkaline earth metals, halogens, noble gases.	
2. Chemical reactions and	Types of Chemical reactions,	6.Study of first element-	Position of Hydrogen in Periodic table,	
Chemical changes.	Energy changes in Chemical reactions.	Hydrogen	Preparation, Chemical properties of hydrogen, Redox.	
3. Water	Solutions, Solubility, Water of crystallisation, Efflorescence, Deliquescence, Hygroscopy, Drying and Dehydrating agents.	7. Study of gas laws.	Gaseous state of matter, Boyle's Law, Charles' Law, The Gas equation.	
4. Atomic Structure and Chemical Bonding	Structure of Atom, Isotopes, chemical bond, Types of Chemical Bond.	8. Atmospheric Pollution	Acid rain, Global warming, Oxone depletion, Oxygen Cycle, Carbon dioxide cycle	
		9. Practical Chemistry	Detection of gases, action of heat on Compounds, Reaction of dilute sulphuric acid, flame test.	
PROJECT TOPIC:	As per ICSE syllabus	PROJECT TOPIC :	As per ICSE syllabus	
Project submission date: (on	- -	Project submission date: (on or	-	
or before)	As per schedule	before)	As per schedule	
SYLLABUS FOR UNIT TEST				

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25 SUBJECT-BIOLOGY

PRESCRIBED TEXT BOOK: ICSE-CONSCISE BIOLOGY-9

HALF '	YEARLY	ANNUAL		
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
1.Intrducing Biology	Growth of Biology, Branches of Biology	10.Nutrition	Classes of different nutrients,balanced diet.	
		11.Digestive system	Teeth,salivary gland,different parts of the	
2.The Cell -A unit of life	Cell Structure, Cell theory, Cell organelle, Prokaryotic and Eukaryotic cell		alimentary system and process of digestion.	
		12.Skeleton system	The different human skeleton, structure of	
3.Tissues	Animal tissues-different typesPlant Tissue – Simple and Complex Tissue,		vertebrae,axial and appendicular skeletal system,joints.	
4 (77) - 171	Structure of bisexual parts, description	13.Skin	structure and function of skin,skin	
4.The Flower	of floral parts.		derivatives, temperature regulation.	
5.Pollination and fertilization.	Different types of pollination,advantages and	14.The respiratory system	Structure of respiratory system, gaseous exchange and tissue respiration, respiratory	
101111111111111111111111111111111111111	disadvantages.fertilization.		volumes.	
6.Seeds -structure and germination	Structure of bean seed,maize seeds,germination,types of	15. Hygiene	General idea of personal hygiene,mode of transmission	
germmation	germination, viviparous germination.		uansmission	
7.Respiration in plants	Respiration, different	16.Diseases-causes and	Different types of diseases and their causes	
	types, experiments.	control.	and control	
8. Five kingdom	Different characteristic features of	17.18Aids to health and health	Active and passive immunity, defence system	
classification.	different phylla of plant and animals.	organization	of the body,terminology,vaccines,activities of Red cross and WHO.	

9. Economic importance of Bacteria, fungi, usefulness, food

bactera and fungi. spoilage, diseases

19. Waste generation and

management waste.

Categories of wastes, methods of disposal of

PRACTICAL TOPIC : As per the ICSE syllabus chapters. PRACTICAL TOPIC : As per the ICSE syllabus chapters.

Practical lab manual submission date:

As per class schedule

Practical lab manual submission date

As per class schedule

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25

SUBJECT: ECONOMIC APPLICATIONS

PRESCRIBED TEXT BOOK : Elementary of Economic Applications

ARLY		ANNUAL
TOPICS	CHAPTER NO./TITLE	TOPICS
Definition, Micro and Macro Economics, Types of Activities	8. Main Sectors Of Indian Economy :Services	Classification of Service Sector,Importance of Services,Factors Enabling High Growth of Service Sectors in India,Interdependence among various sectors.
Economies and its main Sectors,Basic Units of Economic Analysis,Conumers,Producers, Government	9. Other Sectors of Indian Economy	Introduction, Classification on the Basis of Ownership, Private Sector, Public Sector, Classification on the basis of habitation
Economic Problems, Central Problems of an Economy, Efficient use of resources, Economic Growth and Economic development	10.Economic Infrasrtuctre Financial Literacy:Financial Inclusion Schemes	Introduction ,Meaning and Components of Infrastructure,Economic infrastructure,Transport System,Communication,Insurance,Ener gy,Irrigation, Effects of weak infrastructure Pradhan Mantri dhan Jan Yojna,Sukanya Samridhi Yojna,National pension Scheme,Employees Provident Fund
	TOPICS Definition, Micro and Macro Economics, Types of Activities Economies and its main Sectors, Basic Units of Economic Analysis, Conumers, Producers, Government Economic Problems, Central Problems of an Economy, Efficient use of resources, Economic Growth	TOPICS CHAPTER NO./TITLE Befinition, Micro and Macro Economics, Types of Activities Economies and its main Sectors, Basic Units of Economic Analysis, Conumers, Producers, Government Economic Problems, Central Problems of an Economy, Efficient use of resources, Economic Growth and Economic development Financial Literacy: Financial Inclusion

Classification on The Basis of Ownership ,The Means of Production,Classification on the basis of Level of Development	11. Social Infrastructure Financial literacy: PAN card and Aadhar Card	Importance of Social Infrasructure,Education,Health,Family Planning,housing,Impacts of weak Social Infrastructure Purpose,requirement and issuing body of PAN card,Income tax,Aadhar card and its benefits
What is Indian Economy?Characteristics of Indian Economy.	12 .Consumer Awareness	Consumers place in market,Forms of Consumer exploitation, Reasons for Consumer Exploitation,Growth of consumer awareness,Consumer Education,Consumer Rights,Food Adulteration,Standardisation of
Main Sectors of Indian Economy, Meaning of Agriculture, Role, Trends in Agricultural Production, Cause of low productivity, Impact		
globalisation, World Trade Organisation, Multinational		
	Ownership ,The Means of Production,Classification on the basis of Level of Development What is Indian Economy?Characteristics of Indian Economy. Main Sectors of Indian Economy. Main Sectors of Indian Economy,Meaning of Agriculture,Role,Trends in Agricultural Production,Cause of low productivity,Impact Meaning of Industrialisation,Importance, Significance of industries, Interdependence of agriculture and industry, Problems and impact of industrial practices on ecosystem, Globalisation, Factors and Impacts of globalisation, World Trade	Ownership ,The Means of Production,Classification on the basis of Level of Development Financial literacy: PAN card and Aadhar Card What is Indian Economy?Characteristics of Indian Economy. Main Sectors of Indian Economy,Meaning of Agriculture,Role,Trends in Agricultural Production,Cause of low productivity,Impact Meaning of Industrialisation,Importance, Significance of industries, Interdependence of agriculture and industry, Problems and impact of industrial practices on ecosystem, Globalisation, World Trade Organisation, Multinational

Central Problems Faced By

PROJECT TOPIC: Economy, Problems In Public PROJECT TOPIC: Consumer Rights and Consumer Protection.

Transport,

Project submission date: (on or Project submission date: (on or

before) 20.08.2024 before) 15.12.2024

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX

ACADEMIC SESSION 2024 - 25

SUBJECT: Mathematics

PRESCRIBED TEXT BOOK: Understanding ICSE Mathematics

	HALF YEARLY	ANNUAL		
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
2. Compound Interest	Application of Formula, Growth & Depreciation (FLN)	14. Theorem on Area	Fundamental Concepts, Area Axioms	
3. Expansions	Special products & Applications	19. Co-ordinate Geometry	Co-ordinate Axes, Graph of Linear Equations,	
1. Rational and Irrational	Rational & Irrational Numbers, repeating numbers,		Graphical Solution of pair of Linear Equations,	
Numbers	Non repeating, non terminating decimals, surds and		Distance Formula	
	rationalization of surds	13. Rectilinear Figures	Types of Quadrilateral and their Properties,	
4. Factorization	Factorization by taking common factor, grouping,		Construction of Quadrilateral	
	trinomials, cubic factorisation	16. Mensuration	Perimeter and Area of triangle, Quadrilateral,	
10. Triangles	Congruency of triangle, Isosceles triangles, Inequalities		Circumference and area, Surface area and	
			Volume of Cuboid and Cubes	
11. Mid- point Theorem	Mid- point Theorem, Intercept Theorem	20. Statistics	Mean and Median of Ungrouped Data, Frequency	
5. Simultaneous Linear	Substitution Method, Elimination Method, Cross		Distribution, Cumulative Frequency, Graphical	
Equation	multiplication Method		Representation of Statistical Data	
6. Problems on	Word Problems			
Simultaneous Linear				
7. Quadratic Equations	Solving Quadratic Equations			
8. Laws of Indices	Laws of Indices			
9. Logarithms	Logarithm, Laws of Logarithms			
12. Pythagoras Theorem	Pythagoras Theorem & its Converse, Application in			
	word problem			
15. Circle	Chord & Arc Property			
_	Trigonometrical ratios of the triangles			
18. Trigonometrical	Trigonometrical Tables of Standard Angles			
Ratios of Standard Angles	Complementary angle			
PROJECT TOPIC :	Study ways of raising loan to buy a Car or House	PROJECT TOPIC :	Statistical Analysis of Height, Weight, Number of Family Members and Pocket Money of Class – IX	
	Zinay mayo of fatoning foun to day a car of floube		students	
Project submission date:		Project submission date:		
(on or before)	15.07.24	(on or before)	15.11.24	

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25

ROBOTICS AND ARTIFICIAL INTELLIGENCE

PRESCRIBED TEXT BOOK: Robotics & Artificial Intelligence. - published by Orange Education Pvt. Ltd.

HALF YEARLY		ANNUAL		
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
Part-1.Chap-1. Introduction to Robotics	Understanding Robots, Generations of Robots, Ethics in Robots, Laws of Robotics, Classification of Robots, The future of Robotics and Robots.	Part-1.Chap-2. Robot as a System	Insectbots, Industrial Robots, Humanoid Robot, Aerial Robots, Underwater Robots, Mobile Robot.	
Part-1.Chap-2. Robot as a System	Building Blocks of Robots, Identification of Robots, Example of Robots based on size - Microbot, Snakebots. (Till Page no. 55)	Part-1.Chap-3. Concepts in Robotics.	The concept of Robotics, Concept of joints in Robotics, Degree of Freedom in Robots, Concepts of Motions in Robotics, Concept of links in Robotics.	
Part-2.Chap-1. Introduction to Artificial Intelligence.	Definition of Intelligence, Meaning and Brief History, Applications and benefits of AI, Turing Test, AI applications in daily life, Disadvantages of AI, Ethical issues with AI, AI Ethics progress, AI Bias, Ethical Considerations in AI.	Part-2.Chap-2. Roll of Data and Information, Evolution of Computing	Data, Data to Information, Deterministic computing for Deterministic Problems.	

Part-2.Chap-3. Introduction to Data and Programming with Python.

Introduction to Python, Working in Python, Character set, Tokens, Operators, input() function, Statements in Python, Data Types and Variables, Operator Precedence, Print() function, Errors in Python, Sequential Statements, Jump Statement, Function, Arguments, Itarative statements.

Part-2.Chap-4. AI Concepts and AI concepts, 4Ws Problem canvas, Data AI Project Framework Acquisition, Problem Statement Template

Al concepts, 4Ws Problem canvas, Data Acquisition, Problem Statement Template, Data Visualisation, Data Exploration, Components and Stages, Decision Tree -Rule-based Approach, AI project Evaluation. Data Modelling Techniques, Pixel It -Learning based approach, AI Project deployment.

Entire Syllabus is included along with project (Part - I : ch - 1,2 and 3 and Part - II : ch

PROJECT TOPICS : Robot as a system. PROJECT TOPICS : 10 Programs of Python

Project submission date: on or before: 14.08.2024 Project submission date: on or before: 29.11.2024

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25 COMPUTER APPLICATIONS

PRESCRIBED TEXT BOOK: ICSE UNDERSTANDING COMPUTER APPLICATIONS with BlueJ

HALF YEARLY			ANNUAL	
CHAPTER NO./TITLE	TOPICS	CHAPTER NO./TITLE	TOPICS	
Introduction to Object Oriented Programming Concepts	Tyeps of computer languages, Compiler and Interpreter, Types of High Level Languages, Principles of OOP. Features of Java, Types of Java programming, BlueJ, Execution of Java Program.	9. Nested for loops	Syntax of Nested loop, use of break and continue in nestd loop.	
2.Elementary Concept of Objects and Classes	Object and Class, Software object and class, Instance of class, Object Factory.	10. Computing and Ethics	Ethical issues in computing, Intellectual Property Right, Spam, Cyber Crime, Cyber laws, Hacking, Protection against Malicious Intent.	
3. Values and Data Types	Unicode character set, ASCII code, Token, Identifier, Literal, Type conversion-Implicit and Explicit.	11. More on Basic Input/Ouput (Scanner and Priner Classes)	Scanner class, Methods to read tokens,	
4.Operators in Java	Concept of Operator, Expression and Statement, Java Expression, Shorthand operator, Ternary operator, Hierarchy of Operators	Entire Syllabus is included along with project of total 20 programs. (ch - 1,2,3,4,5,6,7,8,9,10,11)		
5.Input in Java	Java comments, Input by Function Argument, InputStreamReader Class, Scanner Class, Testing and Debugging, Types of Errors.			

6.Mathematical Library

Methods

Mathematical Library Methods,

Trigonometrical Functions,

Conversion from degree to radian

and vice versa.

in Java

7. Conditional Statements Flow of control, Conditional flow, if statement, if-else statement, if-elseif-

else statement, Nested if statement.

8. Iterative Constructs in

Java

Entry control loop, Exit control loop,

for loop, while loop, do-while loop, jump statement- break, continue, finite loop, infinite loop, delay loop,

Interconversion of Loops.

PROJECT TOPICS: 10 Programs from if-else, switch-case,

Loop. [Each program should contain VDT and Sample input and

output.]

Project submission date: on or before: 14.08.2024

PROJECT TOPICS: 10 Programs from if-else, switch-case, loop, nested loop.

[Each program should contain VDT and Sample input and output.]

Project submission date: on or before: 29.11.2024

SYLLABUS FOR UNIT TEST

ST. FRANCIS XAVIER SCHOOL PHYSICAL EDUCATION SYLLABUS FOR CLASS -IX ACADEMIC SESSION 2024-25

HALF YEARLY		ANNUAL	
TOPICS & COMMANDS	BENEFITS & VALUES	TOPICS & COMMANDS	BENEFITS & VALUES
*General Warm-ups	Improving body flexibility	*Dynamic Stretching exercises	Body Flexibility
*Yoga Exercises	Stress relief, helps digestion	Upper and lower body exercises	Improvement of stamina
*Recreational Games	Developing mental ability & physical fitness.	Fitness Training-jogging,	Developing body fitness
*March past commands	Discipline during assembly	March Past Practice	Practice for Sports Events

ST. FRANCIS XAVIER SCHOOL SYLLABUS FOR CLASS IX ACADEMIC SESSION 2024 - 25 SUPW

HALF YEARLY		ANNUAL	
TOPIC		TOPIC	
MAIN CRAFT-	Crop and Seed production /	MAIN CRAFT-	Making Toys and
	Bakery.		Puppets/ Book Binding/
			Photography
SUBSIDIARY CRAFT /	Surface Decoration / Interior	SUBSIDIARY CRAFT /	Dyeing and Painting /
SERVICES -	Decoration.	SERVICES -	Plaster of Paris work.

Project submission date: on or before: 14.08.2024 Project submission date: on or before: 29.11.2024